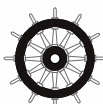


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# JLR-7500/JLR-7800 (D)GPS navigator

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**JRC**



*– the new (D)GPS navigator has the same look and feel as JRC's unified designed products*

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**5.7–inch high visibility display**

**Great Circle and Rhumb line in the same route**

**Various display modes available**

**Advanced port configuration**

**LAN for route data transfer and interswitching**

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**JRC** *Japan Radio Co., Ltd.*

# (D)GPS navigator – performance features

## Unique features

- The new JLR-7500/JLR-7800 (D)GPS navigator will locate your position accurately and gives you a wide range of possibilities – integrated with the latest technologies – that will enhance your operational performance.

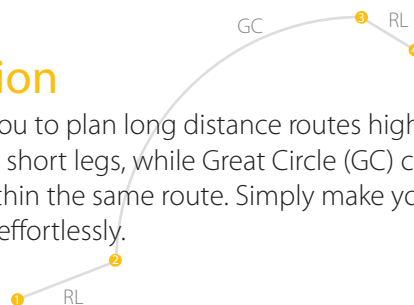


## 3D highway

One of the new display modes is the 3D highway, which allows you to intuitively view the location of the next waypoint. This 3D guidance is particularly valuable to follow a real-time chain of waypoints along a planned route.

## Smart route calculation

The new (D)GPS navigator allows you to plan long distance routes highly effective. It is possible to set Rhumb lines (RL) for short legs, while Great Circle (GC) can be set for the long distance legs – all possible within the same route. Simply make your selection for each leg to reach your destination effortlessly.



## Display modes

All information is displayed on a highly visible 5.7-inch LCD display, featuring added sharpness and contrast compared to the previous version. Many display modes are readily available and selectable from the menu, such as navigation, CDI, highway, track plotting and service and information screens. The display has four dim modes, allowing adjusting at your own convenience.



## Satellite integrity check

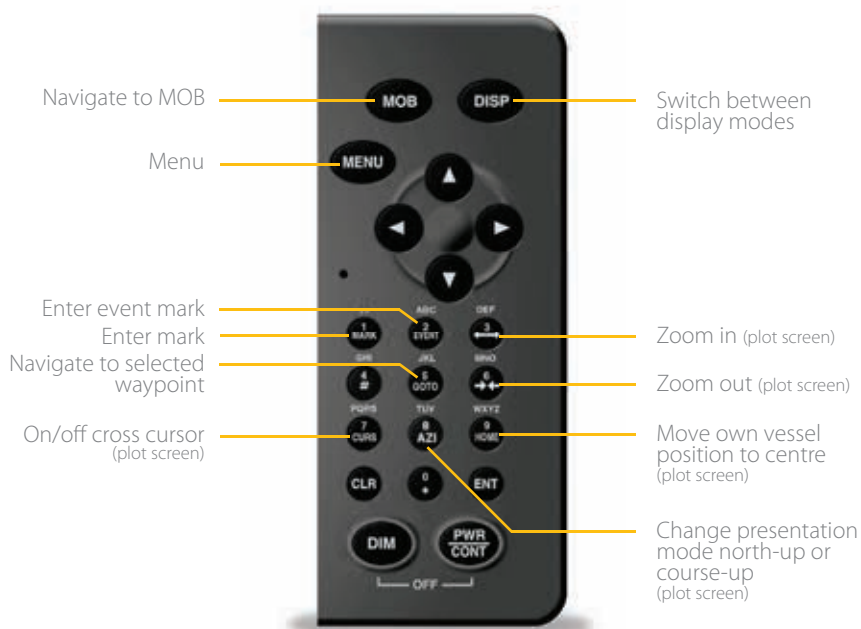
The newly developed sensors includes RAIM, which is to access the integrity of GPS signals. If multiple satellite signals are picked up, this system will check if the position fix is consistent with the computed position, assuring higher reliability than conventional methods.

# (D)GPS navigator

## – developed for maximum ease of use

### Unified design

The new display design allows you to carry out all operations simply by using the unified keyboard layout. The keyboard is solid and responsive, which allows for precise operation.



The keys are also backlit, making it easy to operate in low-light settings on the bridge.

### Simple operation

The compact design of the JLR-7500/JLR-7800 incorporates a new intuitive interface, providing enhanced ergonomics and user friendliness. The logic of the controls and excellent on-screen menus will greatly shorten most users' learning period.

### Key in data

With the new (D)GPS navigator, entering data is just as simple as creating a (SMS) text message on your phone. The consistency in the keyboard layout allows entering waypoint data fast and in a natural way.

### JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers comprehensive assistance through its organisation, in partnership with a worldwide StarNetwork™ of over 270 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.



# (D)GPS navigator – system flexibility

## Port flexibility

The (D)GPS navigator integrates four configurable NMEA ports. This advanced feature will allow you to e.g. have one port configured with the latest NMEA standard, while another port is capable of running a previous version. In this way you can connect older equipment onboard. It also has one in and two contact outputs and LAN, which facilitates route data transfer and/or interswitching.

## Easy installation

The display is very compact and can be mounted virtually anywhere, allowing for a flexible installation approach in confined spaces. The base of the sensor is designed for an easy installation, either on a pole or on an extension mast. The base also includes a slot allowing for easy cable management, significantly reducing installation time.



## My memory

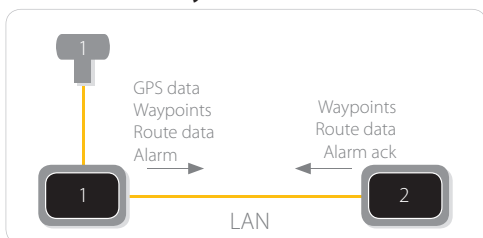
Up to 10,000 waypoints can be stored in the internal memory. All waypoints can be named and renamed up to sixteen characters. You can make 100 routes with 512 waypoints per route, which can be entered randomly, and there's room for 2000 points for the ship's track and up to 1000 for events and marks.

## LAN advantage

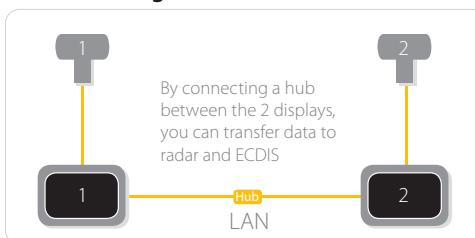
Via a LAN connection, you can easily connect two displays. The second display is fully operable and auto synchronises with the main display, which is directly connected to (D)GPS sensor, allowing e.g. acknowledging alarm or adjusting waypoints/routes at a secondary location on the ship.

You can also set for a dual installation, having two (D)GPS sensors connected to two different displays to simply switch when necessary, assuring you always on.

### Master/secondary



### Interswitching



## What's standard in the box?

1. Display<sup>1</sup>
2. (D)GPS sensor
3. Cables
4. Installation parts
5. Data connector
6. Spare parts
7. Manual

<sup>1</sup> including bracket

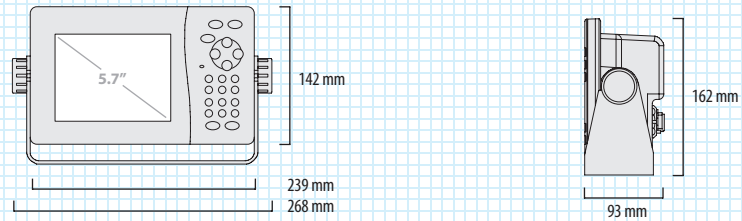
### Which cables?

Power cable display	2 m
Sensor to display	10 m (JLR-7500)
Sensor to display	15 m (JLR-7800)
Display to junction box	5m

# (D)GPS navigator – dimensions and mass

## Dimension drawings - Display

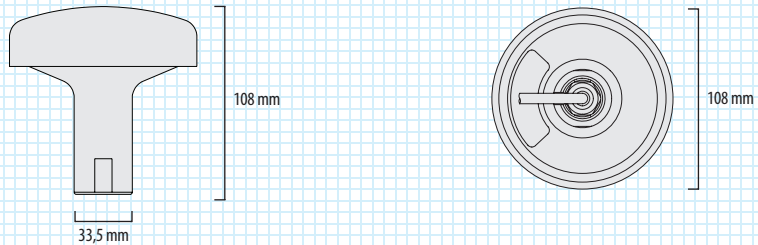
**NWZ-4740** MASS 2,3 kg



cutout for panel mount height 116,6 mm, width 220 mm, depth 180 mm

## Dimension drawings - Sensor JLR-7500

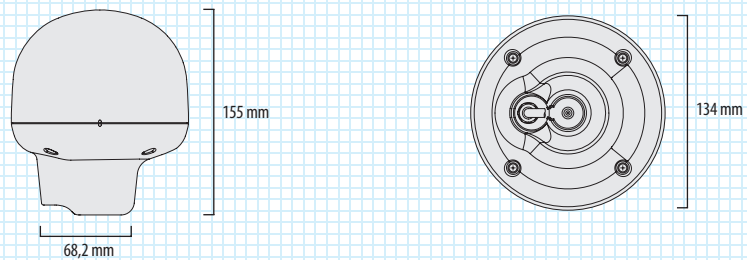
**JLR-4340** MASS 0,7 kg



mounting screw 1-inch 14UNS-2B

## Dimension drawings - Sensor JLR-7800

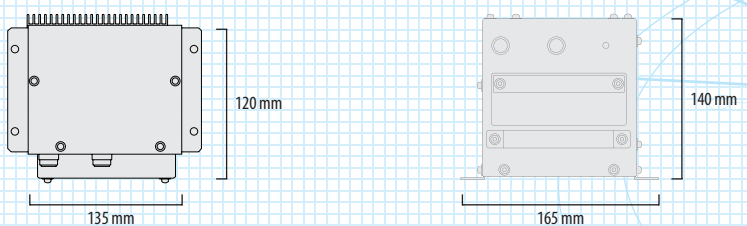
**JLR-4341** MASS 1,7 kg



mounting screw 1-inch 14UNS-2B

## Dimension drawings - Rectifier<sup>1</sup>

**NBG-320** MASS 3,3 kg



<sup>1</sup>optional

# (D)GPS navigator – specifications

Model	JLR-7500	JLR-7800
IMO compliant	✓	✓
<b>General</b>		
Display	5.7-inch, white LED backlight, 320 by 240 pixels	
Dimmer	4 stages (bright, middle, dark, off)	
Power supply	10.8V to 31.2V DC <10 W	
Serial data in/out	output: 4 ch (IEC61162-1), input: 1 ch	
Contact signal in/out	output: 2 ch, input 1 ch	
LAN	built-in 10/100 Mbps	
Data backup	display: flash ROM, sensor: SRAM with battery	
Waypoint	10,000 points, event memory 1000 points, WPT name: 16 characters	
Waypoint input	LAT/LON, bearing/range, event, TD	
WPT/route data transfer	via LAN and RS-232C	
Track/route	2000 points, 100 routes with 512 WPT per route	
Plot scale	0.2, 0.5, 1.2, 5, 10, 20, 50, 100, 200, 300 NM	
Plot interval	1 up to 60 min (1 sec) or 0.01 to 99.99 NM (0.01 NM)	
Navigation calculation	select Great Circle and Rhumb line for each leg (total distance up to 99,999 nm)	
Screen mode	LAT/LON, CDI (highway), trackplot, GPS sat. info, enter WPT/route planning, WPT info	
Alarms	arrival, anchor, boundary, XTD, no position fix, speed, trip, 1) temperature, 1) depth, HDOP	
Adjust magnetic variation	auto or manual	
Geodetic system	46 systems	
Units	NM/kn, km/kPh, mi/miPh, m, ft, fm, °C or °F	
LORAN C/A convert	convert LAT/LON to TD of LORAN C/A	
<b>GPS specs</b>		
Receiver/sensor type	multichannel (12 ch), SBAS (1 ch)	multichannel (12 ch), SBAS (1 ch), DGPS integrated
Frequency	1575.42 MHz ±1 MHz (C/A code)	
Satellite tracking	up to 12 satellites	
SBAS	WAAS, MSAS, EGNOS	
Accuracy	13 m (HDOP <4 SA off), 7 m (SBAS) 2dRMS	13 m (HDOP <4 SA off), 7 m (SBAS), 5 m (beacon) 2dRMS
Power supply	10.8V to 31.2V AC, <1.5 W	10.8V to 31.2V AC, <2.5 W
<b>NMEA</b>		
Version	1.5, 2.1, 2.3	
Bit rate	4800, 9600, 19200, 38400	
Output	GGA, RMC, GLL, VTG, GSA, GSV, DTM, GBS, GRS, GST, ZDA, GNS, ALR, APB, BOD, BWC, BWR, RMB, XTE, ZTG, AAM, RTE, WPL, ACK, 2) MSS, 3) [ VDR, VHWP, HDT, THS, BDT, DPT, MTW, CUR, VBW]	
Input	HDT, THS, BDT, DPT, MTW, CUR, VBW, VHWP, ACK, WPL, RTE ALR	
Interval	1, 2, 3, 4, 5, 6, 7, 8, 9 sec and off	
<b>Environment</b>		
Operating temperature	sensor -25° to +55°C, display -15° to +55°C	
Storage temperature	sensor -40° to +70°C, display -25° to +70°C	
Operating humidity	0% to 93% non-condensing	
Water resistance	sensor IEC60945 (ed.4), USCG CFR-46, display IP44	
<b>Optional items</b>		
Rectifier	NBG-320	
Printer (table mount)	DPU-414	
Connection box	CQD-10	
Data switching unit	NCZ-777	
Junction box	NQE-7700A	
Extension cable (15 m)	CFQ-9000	

1) Via external temp sensor/echo sounder 2) Only JLR-7800 3) Via external speed log/current meter/heading sensor All specifications are subject to change without notification.

• Specifications may be subject to change without notice.

**For further information, contact:**



Since 1915

**Japan Radio Co., Ltd.**

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